

What is claimed is:

1. In a refrigerator including a refrigerator main body having a freezing chamber and a chilling chamber in which foods are stored, a machine room in which a compressor is installed and a rear path in which cool air generated in an evaporator flows into the freezing chamber and the chilling chamber and flows back into the evaporator; and doors respectively combined with the refrigerator main body so as to open/close the freezing chamber and the chilling chamber, a refrigerator, comprising:

a variable temperature storage formed in the chilling chamber so as to have a certain space;

a heating room formed on a side of the variable temperature storage;

a heating means installed in the heating room in order to generate heat in power supply;

a first local circulating path in which cool air in the freezing chamber flows into a rear path through the variable temperature storage;

an adjusting means for adjusting a quantity of cool air flowing into/out of the variable temperature storage through the first local circulating path;

a second local circulating path in which heated air in the heating room passes the variable temperature storage and flows into the heating room again; and

a temperature sensor for sensing a temperature in the variable temperature storage.

2. The refrigerator of claim 1, wherein the first local circulating path

includes:

a first path in which cool air in the freezing chamber flows into the variable temperature storage; and

a second path in which cool air in the variable temperature storage flows  
5 into the rear path.

3. The refrigerator of claim 1, wherein the second local circulating path includes:

a third path in which air in the variable temperature storage flows into the  
10 heating room; and

a fourth path in which air heated in the heating room flows into the variable temperature storage.

4. The refrigerator of claim 1, wherein the variable temperature  
15 storage is formed by a casing installed in the refrigerator and a drawer detachably inserted into the casing, the heating room is formed by a sealed casing having a side wall of the casing, and paths are formed in the casing and the sealed casing.

5. The refrigerator of claim 4, wherein the casing and the sealed  
20 casing are heat-insulating materials.

6. The refrigerator of claim 4, wherein the drawer includes a front  
portion for covering the front of the casing and a storing portion extended-formed  
on a side of the front portion so as to store food, and height of the storing portion is  
25 less than height of the front portion.

7. The refrigerator of claim 1, wherein the adjusting means includes:  
a second damper installed on the first path in order to adjust a quantity of  
cool air flowing through the first path;

5 a sub fan installed on the first path in order to make air flow; and  
a check valve installed on the second path in order to open/close the  
second path.

8. The refrigerator of claim 2, wherein the first path is formed on a  
10 partition wall for partitioning a space in the refrigerator into the freezing chamber  
and the chilling chamber.

9. The refrigerator of claim 2, wherein the second path is formed on a  
partition wall for partitioning a space in the refrigerator into the freezing chamber  
15 and the chilling chamber.

10. The refrigerator of claim 1, wherein the heating means is a wire  
heater.

20 11. The refrigerator of claim 3, wherein a sub fan for circulating air is  
installed on the fourth path.

12. The refrigerator of claim 1, wherein an ultrasonic generator for  
generating ultrasonic waves in defrosting operation is installed on the upper inner  
25 wall of the evaporator.

13. The refrigerator of claim 1, wherein a washing means for washing vegetables or fruits is installed in the variable temperature storage.

5 14. The refrigerator of claim 13, wherein the washing means includes:  
a water supply pipe for supplying washing water to the variable temperature storage;

a water supply valve installed to the water supply pipe in order to adjust supply of washing water;

10 a drainage pipe connected to the variable temperature storage in order to drain washing water;

a drainage valve installed to the drainage pipe in order to adjust drainage;  
and

a vibration generator for vibrating washing water contained in the variable  
15 temperature storage.

15. The refrigerator of claim 14, wherein a drainage pump is installed on the drainage pipe.

20 16. In a refrigerator including a refrigerator main body having a freezing chamber and a chilling chamber in which foods are stored, a machine room in which a compressor is installed and a rear path in which cool air generated in an evaporator flows into the freezing chamber and the chilling chamber and flows back into the evaporator; and doors respectively combined  
25 with the refrigerator main body so as to open/close the freezing chamber and the

chilling chamber, a refrigerator, comprising:

a variable temperature storage formed in the chilling chamber so as to have a certain space;

5 a first path in which cool air in the freezing chamber flows into the variable temperature storage;

a second path in which cool air in the variable temperature storage flows into a rear path;

an adjusting means for adjusting a quantity of cool air flowing into/out of the variable temperature storage; and

10 a temperature sensor for sensing a temperature in the variable temperature storage.

17. The refrigerator of claim 16, wherein the adjusting means includes:

a sub fan installed on the first path in order to make air flow; and

15 a check valve for opening/closing the second path.

18. The refrigerator of claim 16, wherein the adjusting means further

includes a second damper installed on the first path in order to control a quantity of cool air flowing into the first path, and the first path is connected with the sub fan

20 for making cool air passing the evaporator flow.

19. In a refrigerator including a refrigerator main body having a

freezing chamber and a chilling chamber in which foods are stored, a machine room in which a compressor is installed and a rear path in which cool air

25 generated in an evaporator flows into the freezing chamber and the chilling

chamber and flows back into the evaporator; and doors respectively combined with the refrigerator main body so as to open/close the freezing chamber and the chilling chamber, a refrigerator, comprising:

- 5 a variable temperature storage formed in the chilling chamber so as to have a certain space;
- a heating room formed on a side of the variable temperature storage;
- a heating means installed in the heating room in order to generate heat in power supply;
- 10 a third path in which air in the variable temperature storage flows into the heating room;
- a fourth path in which air heated in the heating room flows into the variable temperature storage;
- a sub fan installed on the heating room to generate air circulating flows and
- 15 a temperature sensor for sensing a temperature in the variable temperature storage.

20. The refrigerator of claim 19, wherein the heating means is a wire heater.

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21. The refrigerator of claim 19, wherein the variable temperature storage is made of a heat-insulating material.